



# Management of DoD Modeling and Simulation



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DoD Modeling and Simulation Coordination  
Office (M&S CO)  
OSD/AT&L/DDR&E

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- **Value of Modeling & Simulation**
- **Governance**
- **Vision**
- **Strategic Planning**
- **Questions**



# Value of Modeling & Simulation

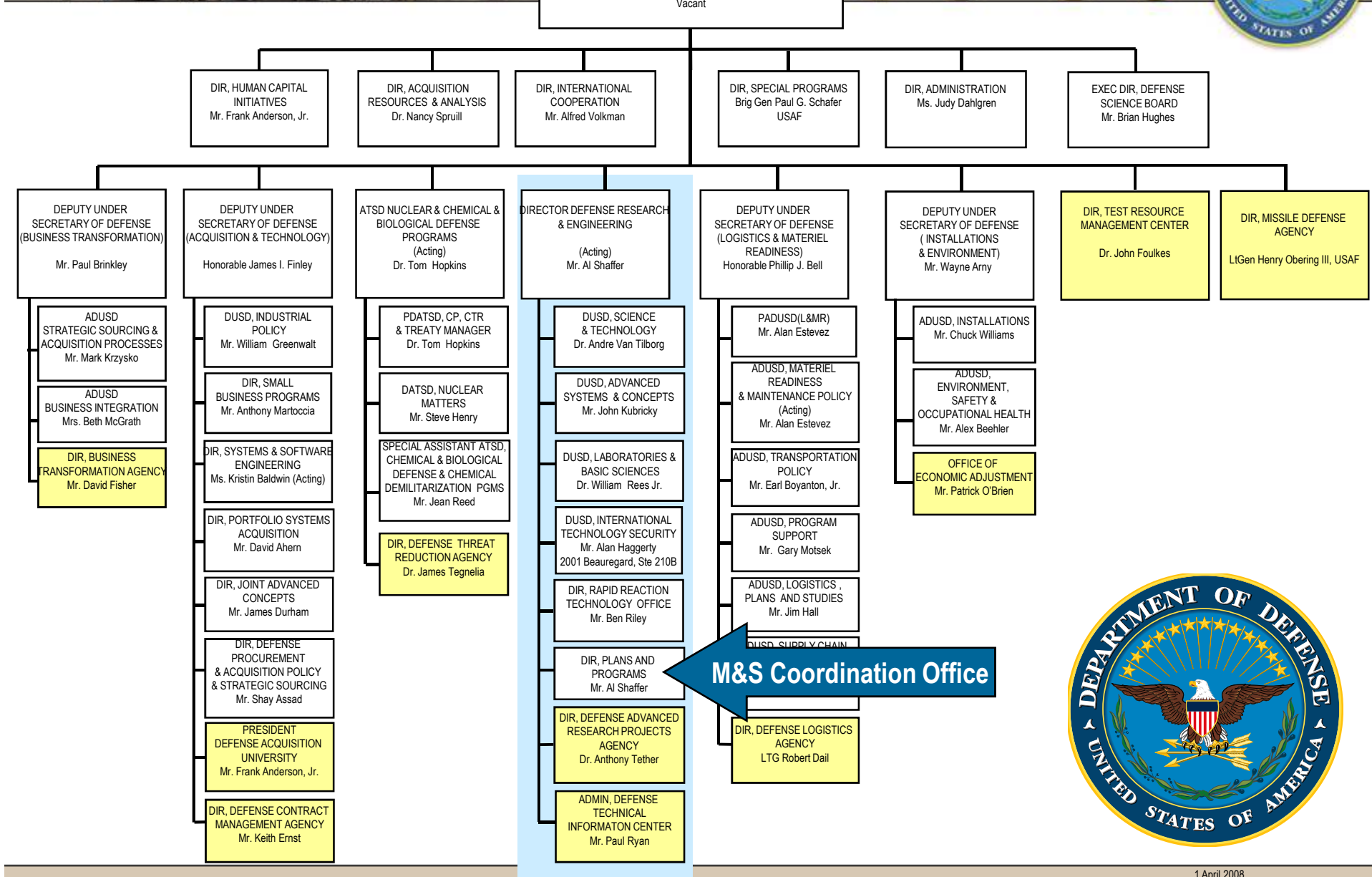
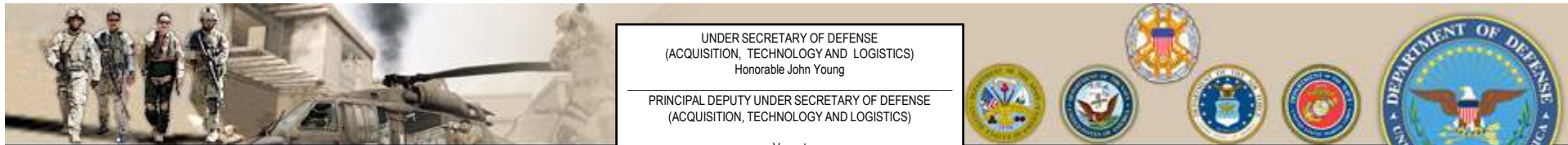
- **Saves Lives**
  - M&S supports real-world applications that save lives.
- **Saves Taxpayers Dollars**
  - M&S supports real-world applications that preserve taxpayer dollars and accelerate the search for solutions to national challenges.
- **Increases Operational Capability**
  - M&S provides strategic operations and support functions to our military, aids plans for national disaster responses and emergency preparedness, fosters and maintains our strategic partnerships, and enhances economic competitiveness globally.



# Governance









# **M&S SC Members**



**Mr. Alan R. Shaffer, OUSD(AT&L) – Steering Committee Chair**

**Mr. Dan Gardner, OUSD (P&R) – Training Community**

**Mr. James Bexfield, ODPA&E – Analysis Community**

**Mr. Nicholas Torelli, OUSD(AT&L)(SSE) – Acquisition Community**

**Ms. Monica Shephard, JFCOM J-9 – Experimentation Community**

**BG Michael E. Rounds USA, Joint Staff J-7 – Planning Community**

**Mr. Joseph Bonnet, Joint Staff J-7 – Planning Community**

**Mr. David W. Duma, (ODOT&E) – Testing Community**

**Mr. Chip Ferguson, (OUSD(AT&L)/TRMC) – Testing Community**

**Ms. Lisa Disbrow, Joint Staff J-8 – Joint Staff & Combatant Commands**

**Mr. James C. Cooke – Army Representative**

**Mr. Carl R. Siel – Navy Representative**

**Dr. George Akst – Marine Corps Representative**

**Mr. Allen Murashige – Air Force Representative**

**Mr. Michael McNerney, OUSD(Policy)**

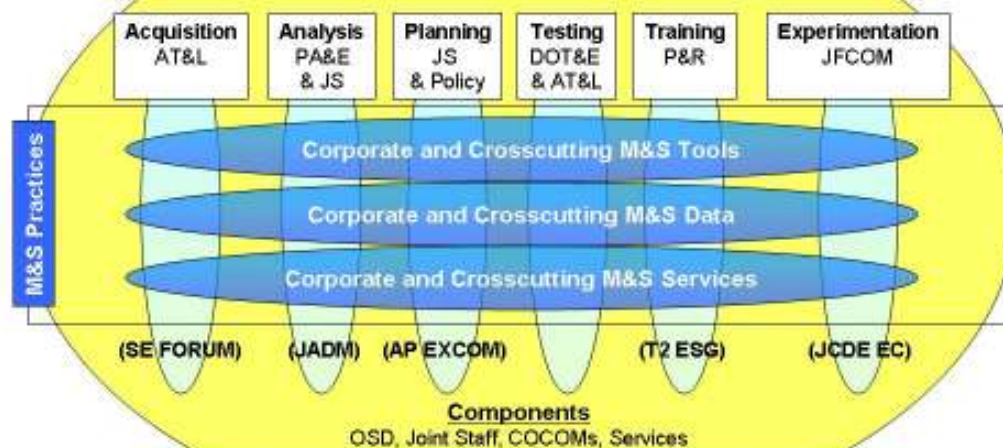
**Ms. Susan Shekmar, OASD(NII)**

# DoD Modeling & Simulation Governance

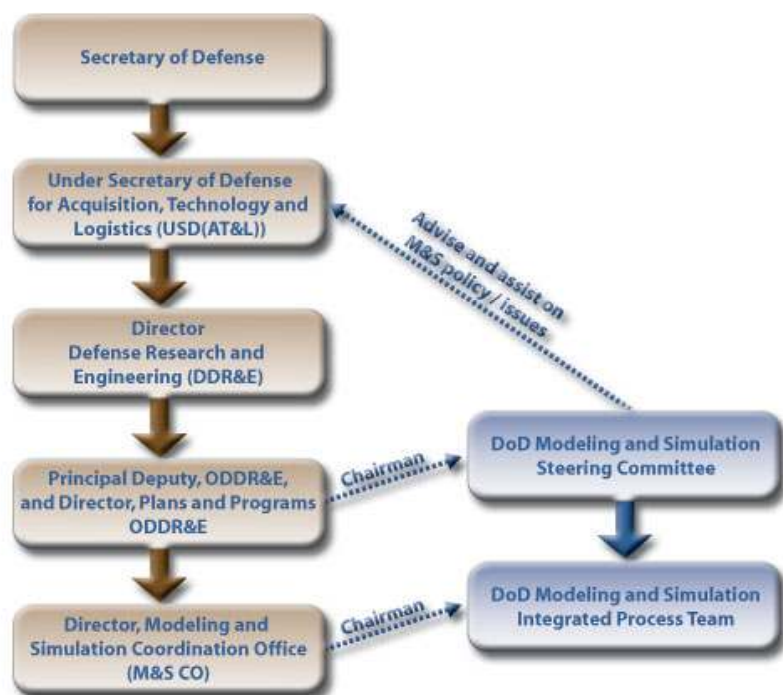


## A New Approach for Managing DoD Modeling and Simulation (M&S)

**New M&S Management Structure Organized by Communities.**  
Designed to Support & Integrate M&S Activities across the Department.  
Led by a 1 to 2 Star M&S Steering Committee (M&S SC) to provide governance.

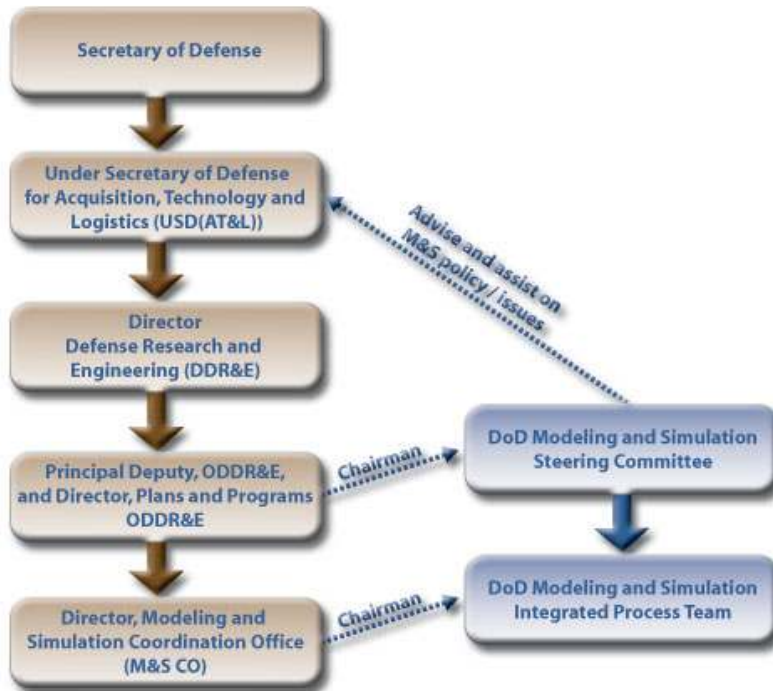


**Goal:** Establish corporate M&S management to address DoD goals:  
Lead/signifies/shepherds the \$Bs in DoD M&S investments; adds value  
thru metrics & ROI-driven priorities; and seeks to provide transparency.





# How DoD Management Harnesses the Value of M&S

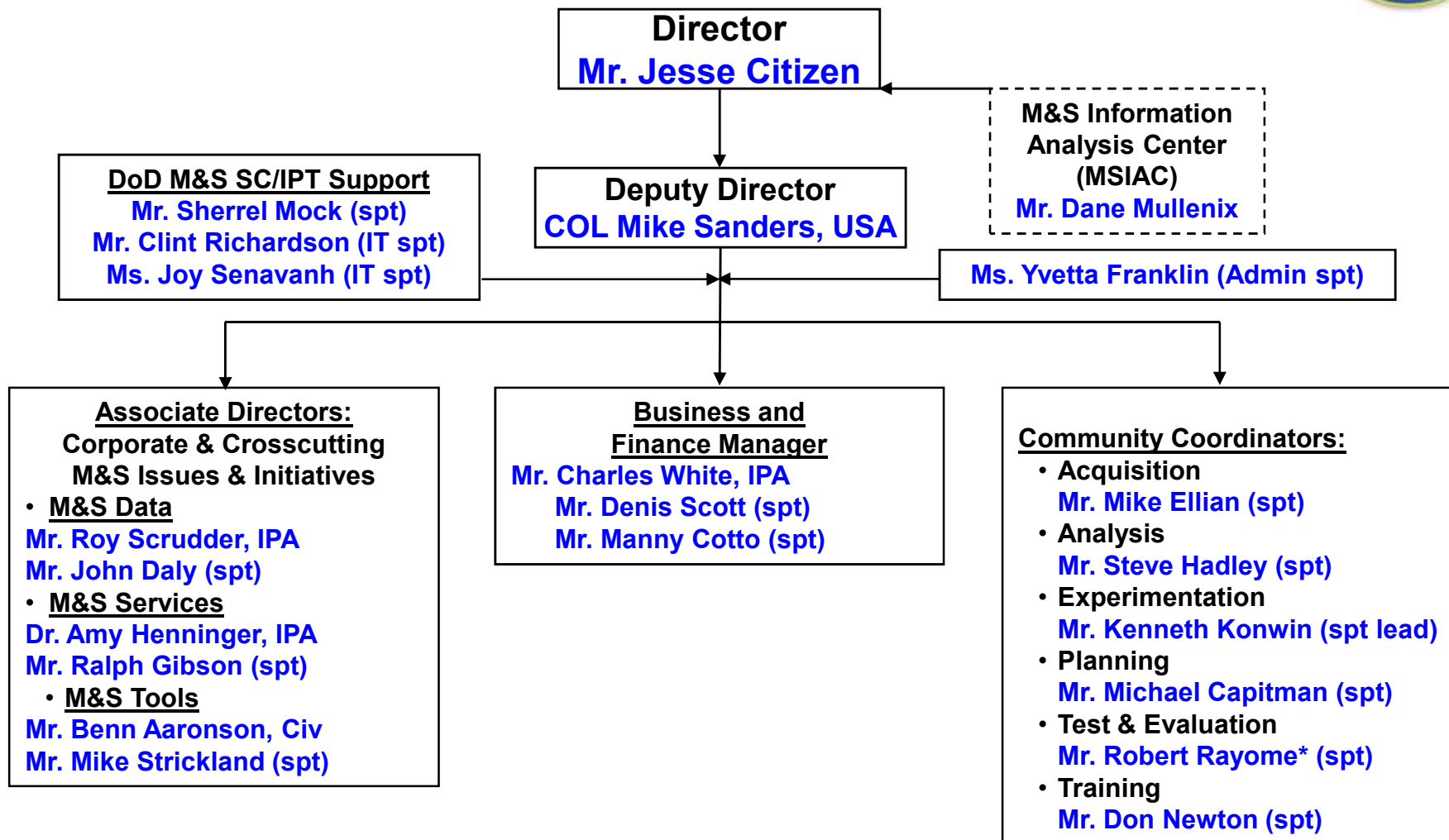


- DoD M&S Leadership
- DoD M&S Steering Committee
- DoD M&S Coordination Office
- DoD M&S Policies and Plans

**Governance**, applied through a clear vision statement, business plans, and effective leadership and management, **enables** better decisions.



# Modeling & Simulation Coordination Office (M&S CO)



\* Mr. Robert Rayome is support for International Coordination



# Vision





# DoD M&S Strategic Vision

***Empower DoD with modeling and simulation capabilities that effectively and efficiently support the full spectrum of the Department's activities and operations.***

**End State:** A robust modeling and simulation (M&S) capability enables the Department to more effectively meet its operational and support objectives across the diverse activities of the services, combatant commands, and agencies. A defense-wide M&S management process encourages collaboration and facilitates the sharing of data across DoD components, while promoting interactions between DoD and other government agencies, international partners, industry, and academia.

## **The Goals of DoD's M&S efforts are to provide:**

1. Standards, architectures, networks and environments
2. Policies at the enterprise level
3. Management processes for models, simulations, and data
4. Tools in the form of models, simulations, and authoritative data
5. People who employ existing models, simulation and data to support departmental objectives and advance M&S to support emerging departmental challenges (through education and training)



## DoD M&S Vision End States

- Foundational M&S architectures, standards, and environments
- Effective policies
- Efficient management processes for models, simulations, and data
- Easily understood verification, validation and accreditation guidelines
- Advance and promote M&S across communities
- Fiscal philosophy to “spend each M&S dollar like it was your own”

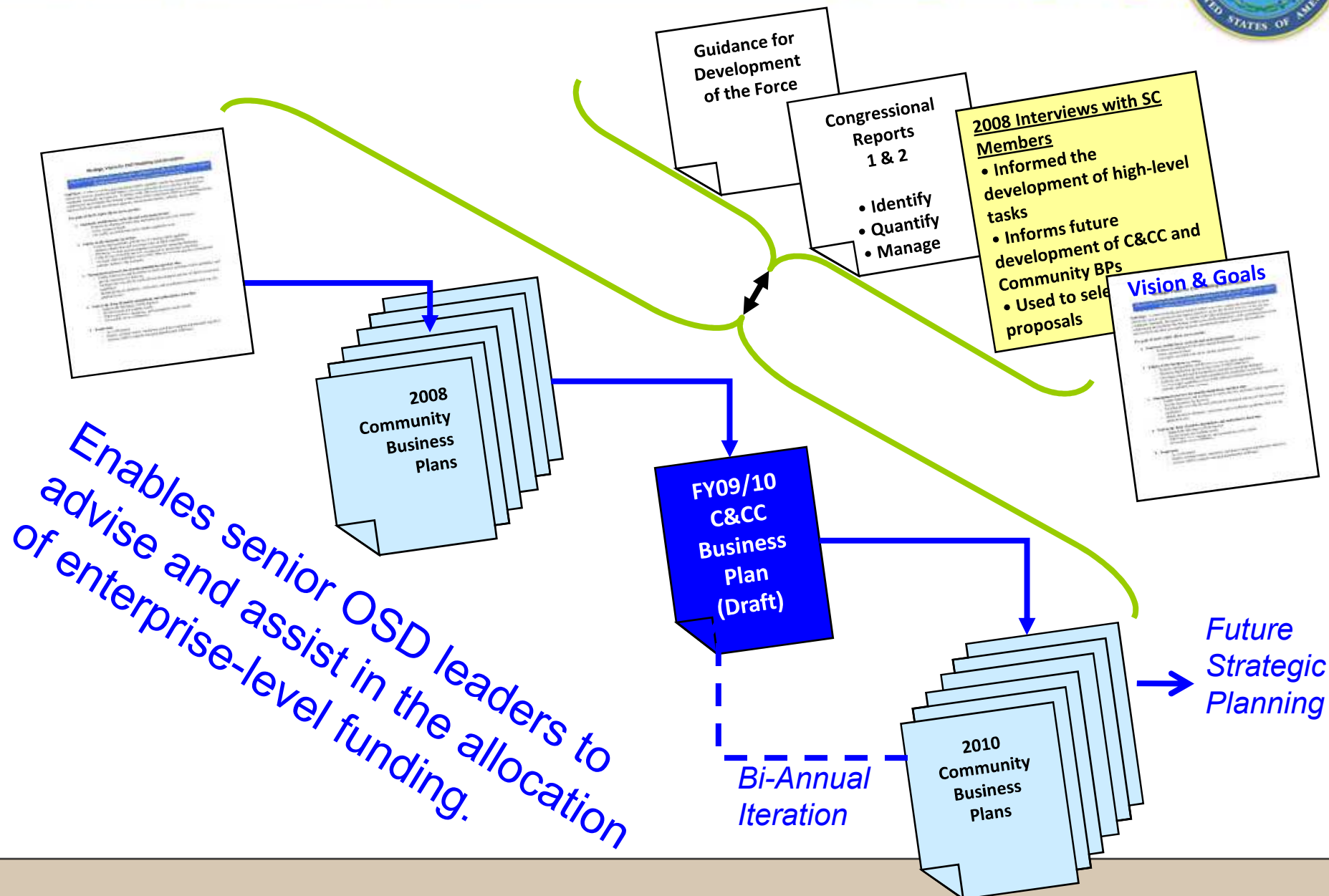




# Strategic Planning



# DoD M&S Strategic Planning



# High-level Tasks & SC Leads

The M&S SC has identified nine high-level tasks that will enhance the applications of M&S throughout the DoD for the benefit of our Warfighters.

By focusing on standards, interoperability, and visibility, these high-level tasks are delivering solutions that will contribute to closing fundamental gaps in current M&S capabilities.

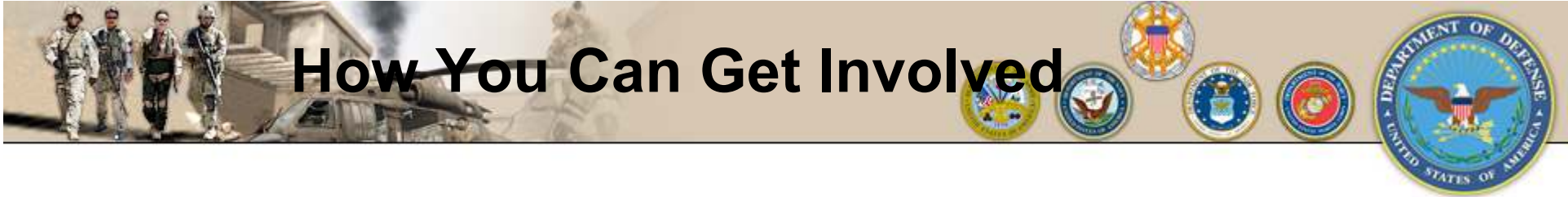
Task ID	Project Title	SC Oversight Lead	Other SC Oversight
S-C-1	M&S Standardization Process	Shaffer	AC, AN, EX, JS, PL, TRMC, TR, USA, USN
S-C-2	LVC Architecture Roadmap Implementation & Net-Centric Environment Implications	Gardner	AC, EX, JS, USAF
S-C-3	Development and Maintenance M&S Standards	Shaffer	AC, AN, EX, JS, PL, TRMC, TR, USA, USN
S-C-4	Develop Best Practices Guide for Contracting for Models, Simulations & Associated Data	DiPetto	AN, EX, JS, PL, USMC
I-C-1	Integrate DoD-wide M&S into Net-Centric Environment	Shekmar	AC, AN, JS, TR, USAF
I-C-2	Rapid Data Generation (RDG)	Bonnet	AN, JS, TR, USAF
I-C-3	Enhancing Department Irregular Warfare Models & Simulations	Bexfield	EX, PL, JS, PL, USA, USMC
V-C-1	Visibility of M&S Tools & Data	Bexfield	AC, EX, JS, NII, PL, TR, , USAF, USN
V-AQ-2	Risk Based Methodology for Verification, Validation & Accreditation (VV&A)	DiPetto	AN, PL, TRMC, USN



# M&S Management Activities

- Developed business plans that inform the FY 09 & FY 10 allocation of funding, and lay the groundwork for FY 11 and out-years to address future challenges
- Tackled the Department's #1 Priority – Irregular Warfare (IW)
  - ✓ Established IW M&S Senior Coordination Group (GO/FO/SES) as a forum for knowledge sharing of IW M&S activities
  - ✓ Highlighted M&S High-Level-Tasks (HLT) addressing:
    - Standards
    - Interoperability
    - Visibility





**Mr. Alan R. Shaffer**

Principal Deputy, Defense Research & Engineering

**Mr. Jesse Citizen**

Director, Modeling and Simulation Coordination Office

Visit the M&S CO website at ***[www.msco.mil](http://www.msco.mil)***  
Send your e-mail inquiries to ***[ask.msco@osd.mil](mailto:ask.msco@osd.mil)***  
Call the M&S CO at ***703-681-7000***



Backup



# Strategic Vision for DoD M&S



## M&S SC Signatories

Mr. Alan R. Shaffer, OUSD(AT&L)  
Mr. Fred E. Hartman, OUSD (P&R)  
Mr. James Bexfield, ODPA&E  
Mr. Christopher DiPetto, Acquisition Community  
Mr. Bud Hay, Experimentation Community  
BG Michael E. Rounds USA, Planning Community  
Mr. David W. Duma, Testing Community (ODOT&E)  
Mr. Chip Ferguson, Testing Community  
(OUSD(AT&L)/TRMC)  
Ms. Lisa Disbrow, Joint Staff & Combatant  
Commands  
Mr. James C. Cooke, Army Representative  
Mr. Carl R. Siel, Navy Representative  
Dr. George Akst, Marine Corps Representative  
Mr. Keith Seaman, Air Force Representative  
Ms. Rosemary Wenchel, OUSD(Intelligence)  
Ms. Susan Shekmar, OASD(NII)

Signed April 24, 2007



**The Modeling and Simulation Coordination Office (M&S CO) performs those key corporate-level coordination functions necessary to encourage cooperation, synergism, and cost-effectiveness among the M&S activities of the DoD Components, as well as NATO and other international partners.**

**The M&S CO is the Executive Secretariat for DoD M&S Management in fostering the interoperability, reuse, and affordability of crosscutting M&S to provide improved capabilities for DoD and international operations.**





# M&S CO Strategic Objectives

- **Standards**: Achieve a set of standards for the development, integration, and conduct of DoD modeling and simulation activities.
- **Interoperability**: Drive towards integrated modeling and simulation (tools, data, services) across Department activities.
- **Visibility**: Provide the capability to discover modeling and simulation (tools, data, and services) across DoD.

Each “objective” will have “tasks” established for implementation with deliverables, metrics, and completion date.